LIST OF CONTENTS

2005

Vol. 45, No. 1

Review

T. Ogawa, T. Chijiwa, N. Oda-Ueda and M. Ohno — 1 — Molecular diversity and accelerated evolution of C-type lectin-like proteins from snake venom

Articles

J.-Q. Chen, Y.-Q. Zhang, J. Dai, Z.-M. Luo and S.-P. Liang — 15 — Antinociceptive effects of intrathecally administered huwentoxin-I, a selective N-type calcium channel blocker, in the formalin test in conscious rats

L.-S. Chang, J.-C. Liou, S.-R. Lin and Y.-C. Cheng — 21 — Purification and characterization of Taiwan cobra venom proteins with weak toxicity

P. Diaz, G. Chowell, G. Ceja, T. C. D'Auria, R. C. Lloyd and C. Castillo-Chavez — 27 — Pediatric electrocardiograph abnormalities following *Centruroides limpidus tecomanus* scorpion envenomation

T. Honma, Y. Hasegawa, M. Ishida, H. Nagai, Y. Nagashima and K. Shiomi — 33 — Isolation and molecular cloning of novel peptide toxins from the sea anemone *Antheopsis maculata*

G. Ucar, C. Tas and A. Tümer — 43 — Monoamine oxidase inhibitory activities of the scorpion *Mesobuthus gibbosus* (Buthidae) venom peptides

M.-F. Li and Y.-L. Shi — 53 — The long-term effect of toosendanin on current through nifedipine-sensitive Ca^{2+} channels in NG108-15 cells

C. O. Miles, A. L. Wilkins, A. D. Hawkes, A. I. Selwood, D. J. Jensen, R. Munday, J. M. Cooney and V. Beuzenberg — 61 — Polyhydroxylated amide analogs of yessotoxin from *Protoceratium reticulatum*

O. R. Pires Jr., A. Sebben, E. F. Schwartz, R. A. V. Morales, C. Bloch Jr. and C. A. Schwartz — 73 — Further report of the occurrence of tetrodotoxin and new analogues in the Anuran family Brachycephalidae

C. S. Yin, H. J. Lee, S.-J. Hong, J.-H. Chung and H.-G. Koh — 81 — Microarray analysis of gene expression in chondrosarcoma cells treated with bee venom

A. Y. Ogay, D. I. Rzhevsky, A. N. Murashev, V. I. Tsetlin and Y. N. Utkin — 93 — Weak neurotoxin from *Naja kaouthia* cobra venom affects haemodynamic regulation by acting on acetylcholine receptors

M. A. Mendes, B. M. de Souza and M. S. Palma — 101 — Structural and biological characterization of three novel mastoparan peptides from the venom of the neotropical social wasp *Protopolybia exigua* (Saussure)

F. F. Y. Radwan, L. G. Román, K. Baksi and J. W. Burnett — 107 — Toxicity and mAChRs binding activity of *Cassiopea xamachana* venom from Puerto Rican coasts

M. C. Vianna Braga, K. Konno, F. C. V. Portaro, J. Carlos de Freitas, T. Yamane, B. M. Olivera and D. C. Pimenta — 113 — Mass spectrometric and high performance liquid chromatography profiling of the venom of the Brazilian vermivorous mollusk *Conus regius*: feeding behavior and identification of one novel conotoxin

Short communication

G. León, B. Lomonte and J. M. Gutiérrez — 123 — Anticomplementary activity of equine whole IgG antivenoms: comparison of three fractionation protocols

Vol. 45, No. 2

Mini-review

J. Ménétrey, D. Gillet and A. Ménez — 129 — Structural features common to intracellularly acting toxins from bacteria

Articles

Y.-p. Chu, Y.-c. Cheng, C.-c. Yang and L.-s. Chang — 139 — The structural events associated with the binding of divalent cations to β-bungarotoxin

J. I. Sosa-Rosales, G. D'Suze, V. Salazar, J. Fox and C. Sevcik — 147 — Purification of a myotoxin from the toadfish *Thalassophryne maculosa* (Günter) venom

J. I. Sosa-Rosales, A. A. Piran-Soares, S. H. P. Farsky, H. A. Takehara, C. Lima and M. Lopes-Ferreira — 155 — Important biological activities induced by *Thalassophryne maculosa* fish venom

H. Oikawa, M. Satomi, S. Watabe and Y. Yano — 163 — Accumulation and depuration rates of paralytic shellfish poisoning toxins in the shore crab *Telmessus acutidens* by feeding toxic mussels under laboratory controlled conditions

F. Chaves, C. F. P. Teixeira and J. M. Gutiérrez — 171 — Role of TNF-α, IL-1β and IL-6 in the local tissue damage induced by *Bothrops asper* snake venom: an experimental assessment in mice

L.-S. Chang, Y.-P. Chu, Y.-C. Cheng, J.-C. Liou and C.-C. Yang — 179 — Lys-64 of the A chain is involved in the enzymatic activity and neurotoxic effect of β-bungarotoxin

M. N. Krifi, S. Savin, M. Debray, C. Bon, M. El Ayeb and V. Choumet — 187 — Pharmacokinetic studies of scorpion venom before and after antivenom immunotherapy

D. O. Mountfort, P. Holland and J. Sprosen — 199 — Method for detecting classes of microcystins by combination of protein phosphatase inhibition assay and ELISA: comparison with LC-MS

R. B. Cunha, A. N. C. Santana, P. C. Amaral, M. D. F. Carvalho, D. M. F. Carvalho, E. A. Cavalheiro, B. Maigret, C. A. O. Ricart, B. A. Cardi, M. V. Sousa and K. M. Carvalho — 207 — Primary structure, behavioral and electroencephalographic effects of an epileptogenic peptide from the sea anemone *Bunodosoma cangicum*

N. G. Lumsden, S. Ventura, R. Dauer and W. C. Hodgson — 219 — A biochemical and pharmacological examination of *Rhamphiophis oxyrhynchus* (Rufous beaked snake) venom

P. M. Bailey, A. J. Bakker, J. E. Seymour and J. A. Wilce — 233 — A functional comparison of the venom of three Australian jellyfish—*Chironex fleckeri*, *Chiropsalmus* sp., and *Carybdea xaymacana*—on cytosolic Ca^{2+}, haemolysis and *Artemia* sp. lethality

T. C. A. Nogueira, F. Ferreira, M. H. Toyama, L. F. Stoppiglia S. Marangoni, A. C. Boschero and E. M. Carneiro — 243 — Characterization of the insulinotropic action of a phospholipase A_2 isolated from *Crotalus durissus collilineatus* rattlesnake venom on rat pancreatic islets

Vol. 45, No. 3

Mini review

K. Strømgaard, L. S. Jensen and S. B. Vogensen — 249 — Polyamine toxins: a development of selective ligands for ionotropic receptors

Articles

S. M. Munekiyo and S. P. Mackessy — 255 — Presence of peptide inhibitors in rattlesnake venoms and their effects on endogenous metalloproteases

J. Aasen, I. A. Samdal, C. O. Miles, E. Dahl, L. R. Briggs and T. Aune — 265 — Yessotoxins in Norwegian blue mussels (*Mytilus edulis*); uptake from *Protoceratium reticulatum*, metabolism and depuration

E. Diego-García, C. V. F. Batista, B. I. García-Gómez, S. Lucas, D. M. Candido, F. Gómez-Lagunas and L. D. Possani — 273 — The Brazilian scorpion Tityus costatus Karsch: genes, peptides and function

I. De Angelis, G. Friggè, F. Raimondi, A. Stammati, F. Zucco and F. Caloni — 285 — Absorption of Fumonisin B_1 and aminopentol on an in vitro model of intestinal epithelium; the role of P-glycoprotein

F. Jungo and A. Bairoch 293 Tox-Prot, the toxin protein annotation program of the Swiss-Prot protein knowledgebase

P.-J. Wang, M.-S. Chien, F.-J. Wu, H.-N. Chou and S.-J. Lee 303 Inhibition of embryonic development by microcystin-LR in zebrafish, *Danio Rerio*

C.-g. Wang, Z. Cai, W. Lu, J. Wu, Y. Xu, Y. Shi and C.-w. Chi 309 A novel short-chain peptide BmKX from the Chinese Scorpion *Buthus martensi* Karsch, sequencing, gene cloning and structure determination

S. Ramasamy, G. K. Isbister, J. E. Seymour and W. C. Hodgson 321 The in vivo cardiovascular effects of an Australasian box jellyfish (*Chiropsalmus sp.*) venom in rats

N. G. Lumsden, B. G. Fry, S. Ventura, R. M. Kini and W. C. Hodgson 329 Pharmacological characterisation of a neurotoxin from the venom of *Boiga dendrophila* (Mangrove catsnake).

J. P. Zuliani, C. M. Fernandes, S. R. Zamuner, J. M. Gutiérrez and C. F. P. Teixeira 335 Inflammatory events induced by Lys-49 and Asp-49 phospholipases A_2 isolated from *Bothrops asper* snake venom: role of catalytic activity

V. M. T. Nobre, A. F. M. Dantas, F. Riet-Correa, J. M. B. Filho, I. M. Tabosa and J. S. Vasconcelos 347 Acute intoxication by *Crotalaria retusa* in sheep

Y. Jin, Q.-M. Lu, R.-Q. Chen, J.-B. Wu and Y.-L. Xiong 353 Molecular characterization of a weak fibrinogen-clotting enzyme from *Trimeresurus jerdonii* venom

S. Saha, D. D. Gupta and M. K. Chakrabarti 361 Involvement of phospholipase C in *Yersinia enterocolitica* heat stable enterotoxin (Y-STa) mediated rise in intracellular calcium level in rat intestinal epithelial cells

R. Raweerith and K. Ratanabanangkoon 369 Immunochemical and biochemical comparisons of equine monovalent and polyvalent snake antivenoms

R. E. Sheridan, T. J. Smith and M. Adler 377 Primary cell culture for evaluation of botulinum neurotoxin antagonists

S. Kuruppu, B. G. Fry and W. C. Hodgson 383 Presynaptic neuromuscular activity of venom from the brown-headed snake (*Glyphodon tristis*)

Vol. 45, No. 4

Mini-review

D. G. Pina and L. Johannes 389 Cholera and Shiga toxin B-subunits: thermodynamic and structural considerations for function and biomedical applications

Articles

I. Moreno, S. Pichardo, A. Jos, L. Gómez-Amores, A. Mate, C. M. Vazquez and A. M. Cameán 395 Antioxidant enzyme activity and lipid peroxidation in liver and kidney of rats exposed to microcystin-LR administered intraperitoneally

A. I. da C. B. Gouveia, R. B. da Silveira, H. B. Nader, C. P. Dietrich, W. Gremski and S. S. Veiga 403 Identification and partial characterisation of hyaluronidases in *Lonomia obliqua* venom

A. Stroka, J. L. Donato, C. Bon, S. Hyslop and A. L. de Araújo 411 Purification and characterization of a hemorrhagic metalloproteinase from *Bothrops lanceolatus* (Fer-de-lance) snake venom

K. C. de Oliveira, R. M. Gonçalves de Andrade, R. M. F. Piazza, J. M. C. Ferreira Jr., C. W. van den Berg and D. V. Tambourgi 421 Variations in *Loxosceles* spider venom composition and toxicity contribute to the severity of envenomation

V. V. Zarayskiy, G. Balasubramanian, V. E. Bondarenko and M. J. Morales 431 *Heteropoda* toxin 2 is a gating modifier toxin specific for voltage-gated K^+ channels of the Kv4 family

Y. Bruchim, E. Ranen, J. Saragusty and I. Aroch 443 Severe tongue necrosis associated with pine processionary moth (*Thaumetopoea wilkinsoni*) ingestion in three dogs

F. Pretel, R. M. Gonçalves-de-Andrade, F. C. Magnoli, M. E. R. da Silva, J. M. C. Ferreira Jr., C. W. van den Berg and D. V. Tambourgi — 449 — Analysis of the toxic potential of venom from *Loxosceles adelaida*, a Brazilian brown spider from karstic areas

F. B. Mello, D. Jacobus, K. Carvalho and J. R. B. Mello — 459 — Effects of *Lantana camara* (Verbenaceae) on general reproductive performance and teratology in rats

M. A. Stephano, R. Guidolin, H. G. Higashi, D. V. Tambourgi and O. A. Sant'Anna — 467 — The improvement of the therapeutic anti-*Lachesis muta* serum production in horses

A. Gasperi-Campani, I. Brognara, D. Baiocchi and L. Roncuzzi — 475 — Mitochondrial DNA D-loop as a new target of Saporin 6 nuclease activity

Y.-H. Han, Q. Wang, H. Jiang, X.-W. Miao, J.-S. Chen and C.-W. Chi — 481 — Sequence diversity of T-superfamily conotoxins from *Conus marmoreus*

K. C. Barbaro, I. Knysak, R. Martins, C. Hogan and K. Winkel — 489 — Enzymatic characterization, antigenic cross-reactivity and neutralization of dermonecrotic activity of five *Loxosceles* spider venoms of medical importance in the Americas

F. Bosmans, M.-F. Martin-Eauclaire and J. Tytgat — 501 — The depressant scorpion neurotoxin LqqIT2 selectively modulates the insect voltage-gated sodium channel

M. Aboal and M.-Á. Puig — 509 — Intracellular and dissolved microcystin in reservoirs of the river Segura basin, Murcia, SE Spain

K. Noguchi, M. Sakanashi, T. Matsuzaki, J. Nakasone, M. Sakanashi, T. Koyama, N. Hamadate and M. Sakanashi — 519 — Cardiovascular effects and lethality of venom from nematocysts of the box-jellyfish *Chiropsalmus quadrigatus* (Habukurage) in anaesthetized rats

M. E. Peichoto, L. C. Leiva, L. E. G. Moya, L. Rey and O. Acosta — 527 — Duvernoy's gland secretion of *Philodryas patagoniensis* from the northeast of Argentina: its effects on blood coagulation

Z. Chen, X. Sun and K. Tang — 535 — Cloning and expression of a novel cDNA encoding a mannose-binding lectin from *Dendrobium officinale*

T. Carrette and J. Seymour — 541 — Vascular dopplers: a new way of recording cardiac parameters in envenomed organisms

Obituary — 545 — In memoriam: Gianfranco Menestrina (1954–2004)

Vol. 45, No. 5

G. J. Binford, M. H. J. Cordes and M. A. Wells — 547 — Sphingomyelinase D from venoms of *Loxosceles* spiders: evolutionary insights from cDNA sequences and gene structure

Articles

G. Xu, H. Ulrichts, S. Vauterin, S. F. De Meyer, H. Deckmyn, M. Teng and L. Niu — 561 — How does agkicetin-C bind on platelet glycoprotein Ibα and achieve its platelet effects?

M. Deshimaru, M. Ichihara, T. Hattori, K. Koba and S. Terada — 571 — Primary structure of brevilysin L4, an enzymatically active fragment of a disintegrin precursor from *Gloydius halys brevicaudus* venom

D. Mebs, E. Reuss and M. Schneider — 581 — Studies on the cardenolide sequestration in African milkweed butterflies (Danaidae)

E. B. Nascimento, K. A. Costa, C. M. Bertollo, A. C. P. Oliveira, L. T. S. Rocha, A. L. S. Souza, M. B. A. Glória, T. Moraes-Santos and M. M. Coelho — 585 — Pharmacological investigation of the nociceptive response and edema induced by venom of the scorpion *Tityus serrulatus*

N. Sugiyama, M. Araki, M. Ishida, Y. Nagashima and K. Shiomi — 595 — Further isolation and characterization of grammistins from the skin secretion of the soapfish *Grammistes sexlineatus*

D. Mebs and W. Pogoda — 603 — Variability of alkaloids in the skin secretion of the European fire salamander (*Salamandra salamadra terrestris*)

J. M. Maucher and J. S. Ramsdell — 607 — Ultrasensitive detection of domoic acid in mouse blood by competitive ELISA using blood collection cards

J. Chen and P. Xie — 615 — Tissue distributions and seasonal dynamics of the hepatotoxic microcystins-LR and -RR in two freshwater shrimps, *Palaemon modestus* and *Macrobrachium nipponensis*, from a large shallow, eutrophic lake of the subtropical China

U. Bickmeyer — 627 — Bromoageliferin and dibromoageliferin, secondary metabolites from the marine sponge *Agelas conifera*, inhibit voltage-operated, but not store-operated calcium entry in PC12 cells

S. M. Nascimento, D. A. Purdie and S. Morris — 633 — Morphology, toxin composition and pigment content of *Prorocentrum lima* strains isolated from a coastal lagoon in southern UK

R. Mora, B. Valverde, C. Díaz, B. Lomonte and J. M. Gutiérrez — 651 — A Lys49 phospholipase A_2 homologue from *Bothrops asper* snake venom induces proliferation, apoptosis and necrosis in a lymphoblastoid cell line

R.-S. Yang, C.-H. Tang, W.-J. Chuang, T.-H. Huang, H.-C. Peng, T.-F. Huang and W.-M. Fu — 661 — Inhibition of tumor formation by snake venom disintegrin

Short communications

S. C. Sampaio, A. C. Rangel-Santos, C. M. Peres, R. Curi and Y. Cury — 671 — Inhibitory effect of phospholipase A_2 isolated from *Crotalus durissus terrificus* venom on macrophage function

J.-M. Howes, R. D. G. Theakston and G. D. Laing — 677 — Antigenic relationships and relative immunogenicities of isolated metalloproteinases from *Echis ocellatus* venom

Letter to the Editor

J. L. du Plessis — 681 — Collection of venom from southern African scorpions

Vol. 45, No. 6

Review

P.-C. Shaw, K.-M. Lee and K.-B. Wong — 683 — Recent advances in trichosanthin, a ribosome-inactivating protein with multiple pharmacological properties

Articles

J. M. Benson, J. A. Hutt, K. Rein, S. E. Boggs, E. B. Barr and L. E. Fleming — 691 — The toxicity of microcystin LR in mice following 7 days of inhalation exposure

P.-T. Lim and T. Ogata — 699 — Salinity effect on growth and toxin production of four tropical *Alexandrium* species (Dinophyceae)

I. Teneva, B. Dzhambazov, L. Koleva, R. Mladenov and K. Schirmer — 711 — Toxic potential of five freshwater *Phormidium* species (Cyanoprokaryota)

B. Inceoglu, J. Lango, I. N. Pessah and B. D. Hammock — 727 — Three structurally related, highly potent, peptides from the venom of *Parabuthus transvaalicus* possess divergent biological activity

S. B. Deshpande, A. B. Alex, M. V. Jagannadham, G. R. K. Rao and A. K. Tiwari — 735 — Identification of a novel pulmonary oedema producing toxin from Indian red scorpion (*Mesobuthus tamulus*) venom

R.-P. Qiao, N. Li, X.-H. Qi, Q.-S. Wang and Y.-Y. Zhuang — 745 — Degradation of microcystin-RR by UV radiation in the presence of hydrogen peroxide

F. Stanisçuaski, C. T. Ferreira-DaSilva, F. Mulinari, M. Pires-Alves and C. R. Carlini — 753 — Insecticidal effects of canatoxin on the cotton stainer bug *Dysdercus peruvianus* (Hemiptera: Pyrrhocoridae)

G.-i. Uechi, H. Toma, T. Arakawa and Y. Sato	761	Biochemical and physiological analyses of a hemolytic toxin isolated from a sea anemone *Actineria villosa*
C. Wising, J. Azem, M. Zetterberg, L. A. Svensson, K. Ahlman and T. Lagergård	767	Induction of apoptosis/necrosis in various human cell lineages by *Haemophilus ducreyi* cytolethal distending toxin
G. A. Cunha Filho, C. A. Schwartz, I. S. Resck, M. M. Murta, S. S. Lemos, M. S. Castro, C. Kyaw, O. R. Pires, J. R. S. Leite, C. Bloch Jr. and E. F. Schwartz	777	Antimicrobial activity of the bufadienolides marinobufagin and telocinobufagin isolated as major components from skin secretion of the toad *Bufo rubescens*
R. E. Gawley, M. Shanmugasundaram, J. B. Thorne and R. M. Tarkka	783	Selective detection of saxitoxin over tetrodotoxin using acridinylmethyl crown ether chemosensor
A. Vignaud, C. Hourdé, S. Torres, J. P. Caruelle, I. Martelly, A. Keller and A. Ferry	789	Functional, cellular and molecular aspects of skeletal muscle recovery after injury induced by snake venom from *Notechis scutatus scutatus*
Short communication		
L. F. Felicori, C. Chávez-Olórtegui and E. F. Sánchez	803	Specific identification of *Lachesis muta muta* snake venom using antibodies against the plasminogen activator enzyme, LV-PA

Vol. 45, No. 7

C. Santamaría, S. Larios, Y. Angulo, J. Pizarro-Cerda, J.-P. Gorvel, E. Moreno and B. Lomonte	807	Antimicrobial activity of myotoxic phospholipases A_2 from crotalid snake venoms and synthetic peptide variants derived from their C-terminal region
Articles		
V. M. Gomes, A. O. Carvalho, M. Da Cunha, M. N. Keller, C. Bloch Jr., P. Deolindo and E. W. Alves	817	Purification and characterization of a novel peptide with antifungal activity from *Bothrops jararaca* venom
R. D. Crosland, R. W. Fitch and H. B. Hines	829	Characterization of β-leptinotarsin-h and the effects of calcium flux antagonists on its activity
L. C. Carrijo, F. Andrich, M. E. de Lima, M. N. Cordeiro, M. Richardson and S. G. Figueiredo	843	Biological properties of the venom from the scorpionfish (*Scorpaena plumieri*) and purification of a gelatinolytic protease
Z. Wu, L. Xie, G. Xia, J. Zhang, Y. Nie, J. Hu, S. Wang and R. Zhang	851	A new tetrodotoxin-producing actinomycete, *Nocardiopsis dassonvillei*, isolated from the ovaries of puffer fish *Fugu rubripes*
M. P. Senanayake, C. A. Ariaratnam, S. Abeywickrema and A. Belligaswatte	861	Two Sri Lankan cases of identified sea snake bites, without envenoming
D. Sher, A. Knebel, T. Bsor, N. Nesher, T. Tal, D. Morgenstern, E. Cohen, Y. Fishman and E. Zlotkin	865	Toxic polypeptides of the hydra—a bioinformatic approach to cnidarian allomones
J. R. Colman, M. J. Twiner, P. Hess, T. McMahon, M. Satake, T. Yasumoto, G. J. Doucette and J. S. Ramsdell	881	Teratogenic effects of azaspiracid-1 identified by microinjection of Japanese medaka (*Oryzias latipes*) embryos
M. J. Twiner, P. Hess, M.-Y. Bottein Dechraoui, T. McMahon, M. S. Samons, M. Satake, T. Yasumoto, J. S. Ramsdell and G. J. Doucette	891	Cytotoxic and cytoskeletal effects of azaspiracid-1 on mammalian cell lines
J. M. dos S. Vieira, M. T. de P. Azevedo, S. M. F. de O. Azevedo, R. Y. Honda and B. Corrêa	901	Toxic cyanobacteria and microcystin concentrations in a public water supply reservoir in the Brazilian Amazonia region
X. Chen, B. Xiao, J. Liu, T. Fang and X. Xu	911	Kinetics of the oxidation of MCRR by potassium permanganate
M. Gugger, S. Lenoir, C. Berger, A. Ledreux, J.-C. Druart, J.-F. Humbert, C. Guette and C. Bernard	919	First report in a river in France of the benthic cyanobacterium *Phormidium favosum* producing anatoxin-a associated with dog neurotoxicosis

K. N. Rao, D. Kumaran, T. Binz and S. Swaminathan — 929 — Structural analysis of the catalytic domain of tetanus neurotoxin

Short communication
L. Satora, D. Pach, B. Butryn, P. Hydzik and B. Balicka-Ślusarczyk — 941 — Fly agaric (*Amanita muscaria*) poisoning, case report and review

Addendum
W. Rajendra, A. Armugam and K. Jeyaseelan — 945 — Addendum to "Toxins in anti-nociception and anti-inflammation" [Toxicon Review 44 (2004) 1–17]

A. Harvey — 947 — Announcement

Vol. 45, No. 8

Special Issue: Snake Toxins and Hemostasis

Preface
J. W. Fox and S. M. T. Serrano — 949 — Snake toxins and hemostasis

Articles
J. White — 951 — Snake venoms and coagulopathy

J. W. Fox and S. M. T. Serrano — 969 — Structural considerations of the snake venom metalloproteinases, key members of the M12 reprolysin family of metalloproteinases

G. D. Laing and A. M. Moura-da-Silva — 987 — Jararhagin and its multiple effects on hemostasis

J. M. Gutiérrez, A. Rucavado, T. Escalante and C. Díaz — 997 — Hemorrhage induced by snake venom metalloproteinases: biochemical and biophysical mechanisms involved in microvessel damage

J. Perales, A. G. C. Neves-Ferreira, R. H. Valente and G. B. Domont — 1013 — Natural inhibitors of snake venom hemorrhagic metalloproteinases

S. Swenson and F. S. Markland Jr. — 1021 — Snake venom fibrin(ogen)olytic enzymes

A. S. Kamiguti — 1041 — Platelets as targets of snake venom metalloproteinases

L. C. Wijeyewickrema, M. C. Berndt and R. K. Andrews — 1051 — Snake venom probes of platelet adhesion receptors and their ligands

J. J. Calvete, C. Marcinkiewicz, D. Monleón, V. Esteve, B. Celda, P. Juárez and L. Sanz — 1063 — Snake venom disintegrins: evolution of structure and function

T. Matsui and J. Hamako — 1075 — Structure and function of snake venom toxins interacting with human von Willebrand factor

Q. Lu, A. Navdaev, J. M. Clemetson and K. J. Clemetson — 1089 — Snake venom C-type lectins interacting with platelet receptors. Structure–function relationships and effects on haemostasis

T. Morita — 1099 — Structures and functions of snake venom CLPs (C-type lectin-like proteins) with anticoagulant-, procoagulant-, and platelet-modulating activities

S. M. T. Serrano and R. C. Maroun — 1115 — Snake venom serine proteinases: sequence homology vs. substrate specificity, a paradox to be solved

R. M. Kini — 1133 — The intriguing world of prothrombin activators from snake venom

R. M. Kini — 1147 — Structure–function relationships and mechanism of anticoagulant phospholipase A_2 enzymes from snake venoms

M. A. F. Hayashi and A. C. M. Camargo — 1163 — The Bradykinin-potentiating peptides from venom gland and brain of *Bothrops jararaca* contain highly site specific inhibitors of the somatic angiotensin-converting enzyme

N. Marsh and V. Williams — 1171 — Practical applications of snake venom toxins in haemostasis